

Art Unit: 1652

APPENDIX B

RESULT 8

S15004

acetolactate synthase (EC 4.1.3.18) 2 precursor - rape

C;Species: Brassica napus (rape)

C;Date: 23-Apr-1993 #sequence_revision 23-Apr-1993 #text_change 15-Oct-1999

C;Accession: S15004

R;Bekkaoui, F.; Condie, J.A.; Neustaedter, D.A.; Moloney, M.M.; Crosby, W.L.

Plant Mol. Biol. 16, 741-744, 1991

A;Title: Isolation, structure and expression of a cDNA for acetolactate synthase from Brassica napus.

A;Reference number: S15004; MUID:91329709; PMID:1868206

A;Accession: S15004

A;Molecule type: mRNA

A;Residues: 1-599 <BEK>

A;Cross-references: EMBL:M60068; NID:g167118; PIDN:AAA62705.1; PID:g167119

A;Experimental source: cv. Westar; substrain oleifera; tissue seedling

C;Genetics:

A;Gene: als2

C;Superfamily: acetolactate synthase large chain; thiamin pyrophosphate-binding domain homology

C;Keywords: branched-chain amino acid biosynthesis; carbon-carbon lyase; chloroplast; flavoprotein; magnesium; oxo-acid-lyase; thiamin pyrophosphate

F;1-26/Domain: transit peptide (chloroplast) #status predicted <SIG>

F;27-599/Product: acetolactate synthase 2 #status predicted <MAT>

F;456-504/Domain: thiamin pyrophosphate-binding domain homology <TPB>

Query Match 4.5%; Score 7; DB 2; Length 599;

Best Local Similarity 100.0%; Pred. No. 21;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 106 QQLAIPN 112

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Db 189 QQLAIPN 195